MARKH, A.T.; FEL'DMAN, A.L.; KAGAH, I.S.; LYASHCH, D.Ym.

Improving the quality of preserved cauliflower. Kons. i ov. prom. 14 no.9:15-17 S 159. (HIRA 12:12)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy promyshlennosti (for Markh, Fel'dman). 2. Ukrainskiy nauchno-issledovatel'skiy institut konservnoy promyshlennosti (for Kagan, Lyashch).

(Cauliflower--Preservation)

FAN-YUNG, A.F. [Fang-Yung, A.F.]; KAGAN, I.S.; GRISHINA, I.P.; ZYABKO, L.P.

Removal of gas from semi-processed grape Juice. Kons. i ov. pron. 14 no.11:30-33 N '59. (MIRA 13:2)

1. Ukrainskiy nauchno-issledovatel'skiy institut konservnoy promyshlennosti.

(Grape juice)

KACAN, I.S., LYASHCH, D. Yu.

Use of new equipment in the production of grape juice.

Kons.i cv.prom. 15 no.4:14-15 Ap '60. (MIRA 13:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut konservnoy promyshlennosti.

(Grape juice)

KAGAN, I.S.

Improving the quality and assortment of canned foods, and specializing their production. Kons.i ov.pros. 15 no.8:4-5 Ag *60. (MIRA 13:8)

1. Ukrainskiy nauchno-issledovatel'skiy institut konservnoy promyshlennosti.

(Food, Canned)

MEL'NICHENKO, Ye.L.; KAGAN, I.S.; GOL'DENBERG, M.Ya.; KAMNEVA, Z.P.; SIZOVA, A.G.

Flow diagram of the manufacture of fruit juices. Kons.i ov.prom. 15 no.11:14-15 N '60. (MIRA 13:10)

1. Ukrainskiy nauchno-issledovateliskiy institut konservnoy promyshlennosti.

(Fruit juices)

More about the deaeration of grape juice. Kons. i ov.prom. 17 no.4:13-14 Ap '62. (MIRA 15:3)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy promyshlennosti.

(Grape juice)

.. KAGAN, I.S.

"Sterilization of canned food" ty S.M.IAstrebov, A.M.Massover.
Reviewed by I.S.Kagan. Kons. i ov.prom. 17 no.4:35-36 Ap '62.

(MIRA 15:3)

(Canning and preserving) (IAstrebov, S.M.) (Massover, A.M.)

KAGAN, I.S.; MARCHUK, L.I.

Canning unblanched peppers. Kons.i ov.prom. 17 no.6:17-19
Je '62.

1. Ukrainskiy nauchno-iseledovatel'skiy institut konservnoy
promyshlennosti.

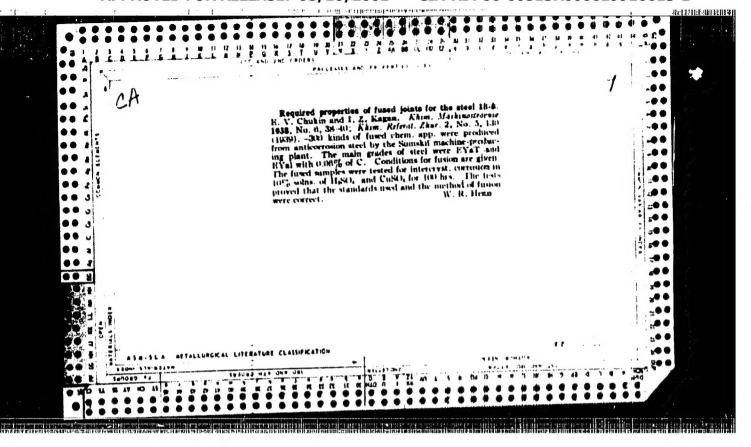
(Canning and preserving)
(Peppers)

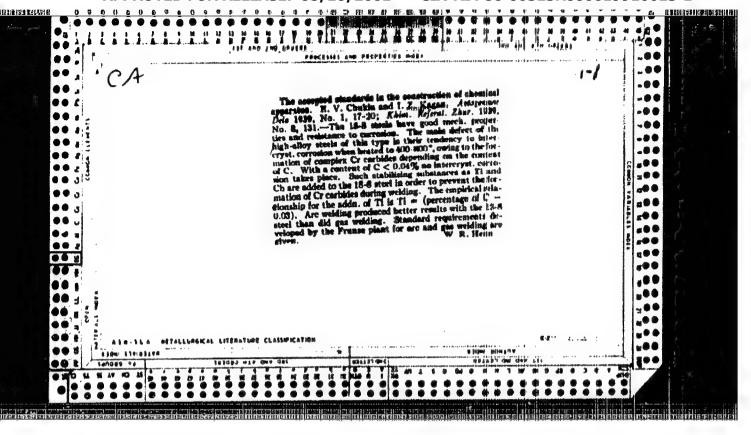
GUSAROVA, Nadezhda Aleksandrovna; KAGAN, Isaak Samoylovich; KAMNEVA, Zoya Petrovna; MARCHUK, Lyubovi Ivanovna; MARCHU, Zoya Aleksandrovna; SIZOVA, Aleksandra Grigoriyevna; SOLOVIYEVA, Yevgeniya Ivanovna; STEPANOVA, E.A., insh., red.izd-va; STARODUB, T.A., tekhn. red.

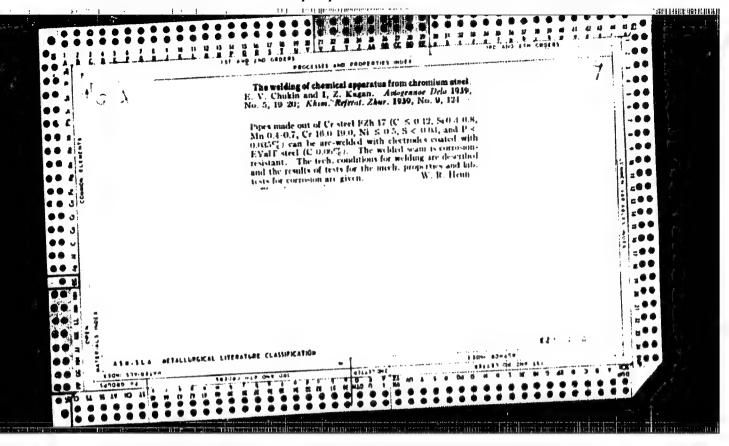
[Home canning] Domashnee konservirovanie. 4., ispr. i dop. izd. Kiev, Gostekhizdat USSR, 1963. 207 p. (MIRA 16:7)

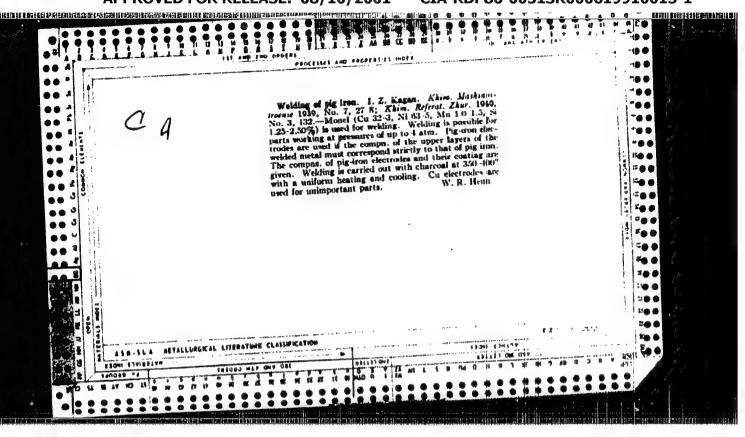
1. Ukrainskiy nauchno-issledovatel'skiy institut konservnoy promyshlennosti.

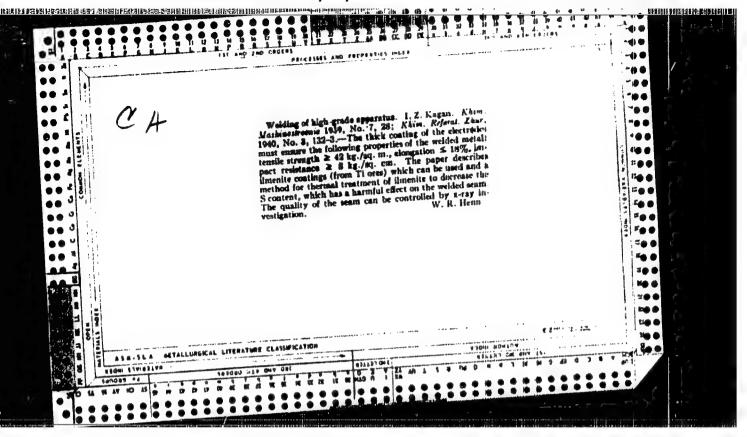
(Canning and preserving)

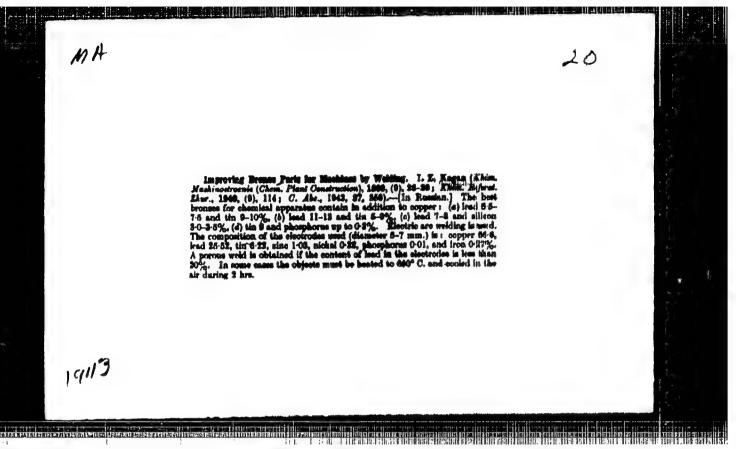


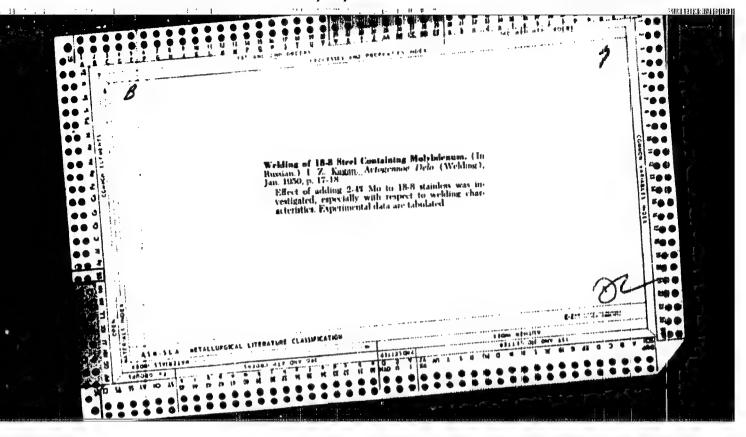












RYBASENKO, I.D.; YAKUBOVSKIY, L.A.; KAGAN, I.Z.; MEVSKIY, B.H., inshener, redaktor; MEDOVAR, B.I., kandidat tekhnicheskikh nauk, retsensent; EORT, M.M., inshener, retsensent; PRITSKER, G.S., tekhredaktor.

[Technology of making chemical apparatus of stainless steel] Tekhnoe logita isgotovleniia khimicheskoi apparatury is nerzhaveiushchei stali. Kiev, Gos., nauchno-tekhn.ind-vo mashinostroit. lit-ry, 1951, 145 p.
[Microfilm] (Chemical apparatus) (Steel, Stainless)

(Chemical apparatus) (Steel, Stainless)

KAGAN, T. Z.

USSR/Engineering - Welding, Methods

1951

TE TENTON THE FEBRUARY PROPERTY OF THE PROPERT

"Automatic Welding of Stainless Steel Using Low-Carbon Electrode Wire Without Columbium," I. Z. Kagan, Engr

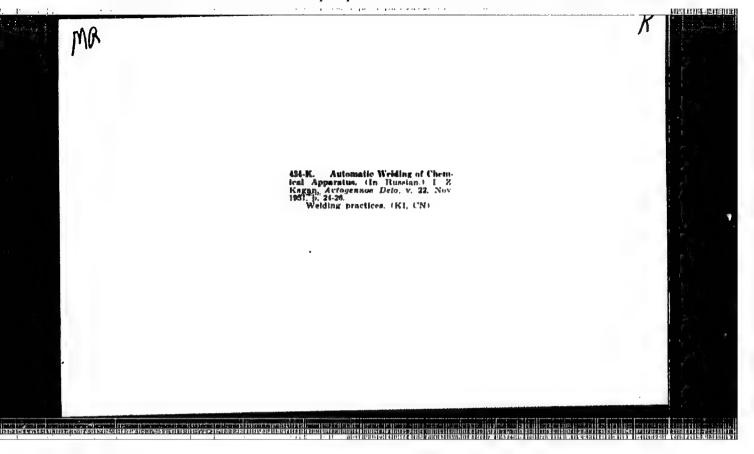
- "Avtomat Svarka" No 1 (16), pp 55-60

Describes technology of welding stainless steels of 18-8 type under flux AN-20, developed by Inst of Elec Welding imeni Ye. 0. Paton, using ordinary low-carbon wire without addn of columbium which promoted formation of hot cracks.

202752

Electric Welding
Automatic welding of stainless steel pins. Avtom. svar. 4 No. 6, (21) 1951.

Nonthly List of Russian Accessions, Library of Journess, June 1952. USCLASSIFIED.



USSR/Metals - Steel, Welding

"Is the Presence of Columbium Necessary in Electrode Wire?" I. Z. Kagan, Engr., Plant Smeni France

"Avtogen Delo" No 4, pp 26, 27

Expts revealed that addn of columbium to electrode wire is not justified in case of welding stainless steel 18-8 with 0.09-12*C. Its presence is even harmful since metal of welded joint losses its plantic properties and develops tendency to hot cracks. Low-carbon stainless wire gives good results in this case.

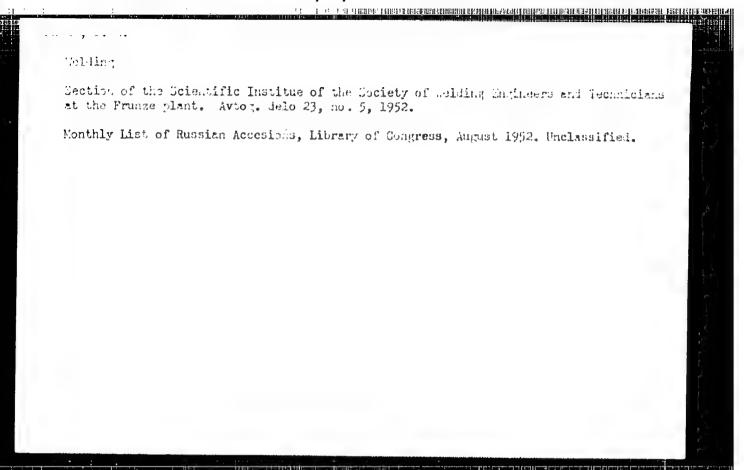
197768

FAGAN, I. 2.		min, Fe0.25% max, C- S0.02% max, and Si 38-44 kg/sq mm. elonga 32-46%, BHN = 80-100.	USSR/Engineering - Wel	Riscusses briefly effect of admixts, such Mg, Mn, Fe, Si, C, Co and Fb, on weldabil Hi in shape of plates and describes process accepted plants since 1938. Flux, without which thickel is impossible, consists of boric aborex, chromous salts, barium peroxide, a ferrovansdium and ilmenite. Chem compa (GOST 849-41 is given as follows: Ni + Co	"Avtogen Delo" No 10,	of Equipme	
		max, C0.10% max, Cu0.10% od Sitrace. Tensile streng elongation in annealed state	Welding, Methods (Contd)	effect of admixts, such as S, Co and Pb, on weldability of ates and describes procedure of tylene process accepted at Sov. Flux, without which welding ple, consists of boric acid, alts, barium peroxide, aluminu ilmenite. Chem compo of N-1 inenite. Them compo of N-2 2027	pp 24, 25	nt Made of Mickel," I.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	202T44	o.10% max, strength state	Oct 51.	ich as S, illity of cedure of d at Soviet welding of acid, aluminum, of N-1 by Co99.5%		Z. Kar	

Welding

Voronenko, the welder-innovator; Avtor, delo 3 no. 2, 1952

Fonthly List of Russian Accessions, Library of Congress, Ear 1952. ENGLASSIFED.



STATES CONFERENCE OF STATES OF STATE

- 1. HADAH, _. Z.
- 2. نائد. (660)
- 4. Oxyacatylene Walding and Cutting
- 7. M. H. Parkhomenko, the Innovator-gas welder. Avtog. delo 23, No. 11, 1992

9. Monthly List of Russian Accessions, Library of Congress, Fabruary 1953, Unclassified.

TO DESCRIPTION OF THE PROPERTY OF THE PROPERTY

- 1. MAGAN, I. 7.
- 2. USSR (600)
- 4. Bondarenko, P. L.
- 7. Experience of P. L. Bondarenko, the Stakhanovite gas welder. Avtog. delo 23 No. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

	- 1 1 1 1 1 1 1 1 1 1
ISSR/Engin	eering - Cold welding
Dard 1/1	Pub. 128 - 15/26
	Sincok, Ya. Ya.; Baranov, M. S.; Pankul, L., A.; Sapiro, L. S.;
Authors	Wagan I Z.: Glukhov, P. A.; Wilkins,
Title	The cold welding of crude iron
Trera	
Periodical	West. mash. 2, 68-71, Feb 1954
•	a second of readers to the pressing
<u> Abstract</u>	In order to familiarize and draw the attention in the Editorial Office problems of cold welding (soldering) of crude iron, the Editorial Office problems of cold welding are
· ·	problems of cold welding (soldering) of the desired of cold welding are published several articles in which various methods of cold welding are
	published several articles in which various interestions performed and discussed, and a description is given of the operations performed and discussed, and a description is given of the above mentioned purpose.
	discussed, and a description is given of the operations performed purpose, the type of electrodes and equipment used for the above mentioned purpose.
	Table; drawings; illustrations.
	18016; dizwinge,
Y	
Institution:	
Submitted	
Papuritag	

SOV/137-59-3-5958

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 144 (USSR)

Kagan, I. Z. AUTHOR:

Automatization of Gas-cutting Operations TITLE:

(Avtomatizatsiya protsessov gazovoy rezki)

PERIODICAL: Prom. ekon. byul. Penzensk. sovnarkhoza, 1958, Nr 1, pp 30-32

ABSTRACT: A report on the performance of machines for O2 cutting at the "Penzkhimmash" plant. The employment of hinge-joint machines of the ASSh-2 type in cutting of spokes (65 mm thick) and sectional

screens (5 mm thick) made it possible to eliminate operations of planing and milling of these components and resulted in a 40-80% reduction in the amount of labor required for their manufacture. At cutting speeds of 100-650 mm/min a cutting accuracy up to 0.3 mm may be achieved. In executing straight cuts with the aid of a compass, as well as in manual cutting along template lines, portable equipment of the types PL-1 and PP-1 is employed which makes it possible to perform vertical and inclined cuts at an angle of 400

(chamfering of edges prior to welding); cuts thus obtained require no subsequent labor-consuming planing on edge-planing machines.

Card 1/2

SOV/137-59-3-5958

Automatization of Gas-cutting Operations

Approximately 120,000 rubles are saved annually as a result of the mechanization of gas-cutting operations at the plant.

G. K.

Card 2/2

The state of the s 135-58-8-13/20 Kagan, I. Z., Engineer AUTHOR: The Air-Arc Cutting of Stainless Steel (Vozdushno-dugo-TITLE: vaya rezka nerzhaveyushchey stali) Svarochnoye proizvodstvo, 1958, Nr 8, p 41 (USSR) PERIODICAL: The article describes a new method of air-arc cutting stainless acid-proof steel (17 to 20% chromium, 8 to 10% ABSTRACT: nickel and 2 to 3% molybdenum content), as used at the Penzkhimmash plant for the production of chemical industry equipment. It was developed by the plant together with VNIIAvtogen in 1957. Conventional methods of gascutting cannot be applied to such steel because of the formation of heat resisting chrome oxides. The described method consists fundamentally in relting the metal by electric arc and simultaneously blowing off the liquid metal Card 1/2

The Air-Arc Cutting of Stainless Steel

135-58-8-13/20

by an air jet. Details of the special cutting "RVD-1-57" torch design and the cutting operation are given. There

13 B - 3 (1) Astronomical Children (1) attended to the contraction of the contraction of

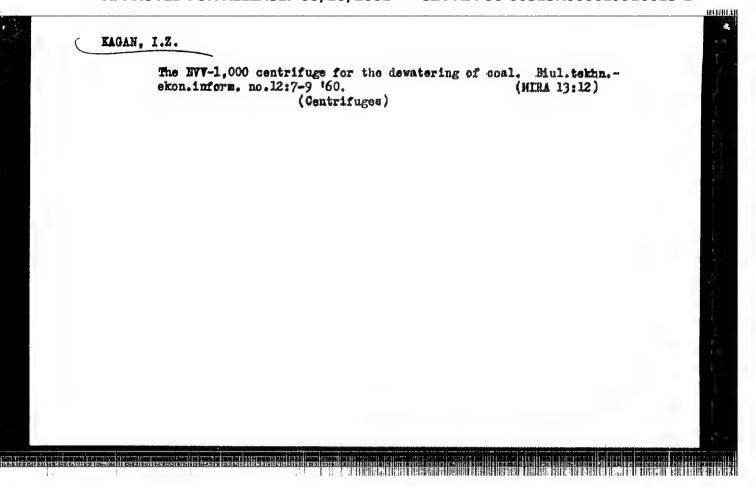
is 1 table.

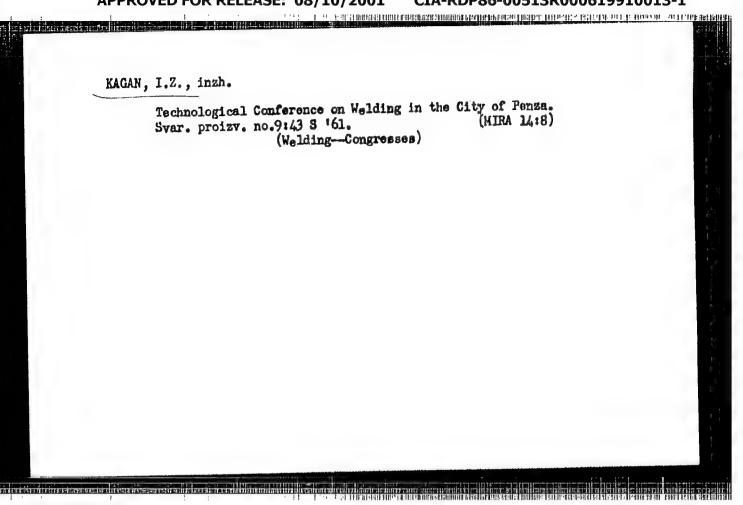
ASSOCIATION: Zavod Penzkhimmash (The Penzkhimmash Plant)

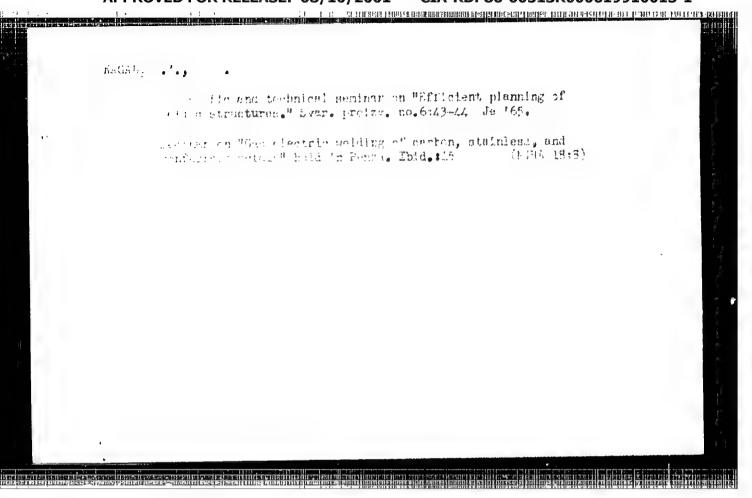
1. Stainless steel -- Cutting methods

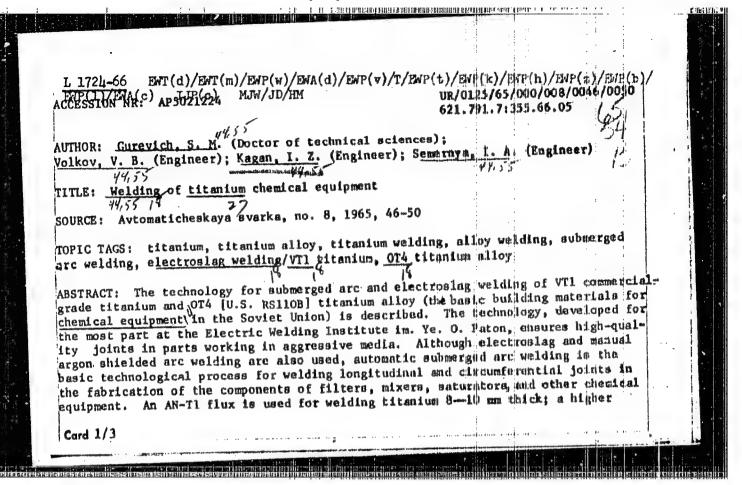
Card 2/2

remain to submitted to the control of procession of proces	1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		etten of articles is interded for the present maker inter- misation and animation of sandia-viol production of shattenth orders of the Peace district to fulfill objectives set formation the Serva fear Plan are distance to an animatic set for complete automation in the production of testromatic is elevated segmanised. No procedities are are no references.	POCESS EQUINORS Common of Metal-Cuttles Ma	of terminal Stiernes). Personntrulities and Societie Smallings Production Stock in Smallings or Expensive Libb in the Con- straint in Marches Manufactually in the Con- fly Will Opposite (England), and N.W. Prijshing of Will in the Conduct production of	commity Sections against proportions to protect a functional to the section of th	conf Terinion		
		Korpletanaya sekhani Pentanahan soma Yena Kapaitance (Fenta) Fentanahan 2,000 copies prin Ed.; W. San'sboy; E	FOUNDATION TO SELECT THE COLUMN SELECT THE CONTRACT OF THE COLUMN SERVICE TO SERVICE THE COLUMN SERVICE OF CONTRACTS.	Ishaterinia, V.S. [MARTEON, A.I. (Cand the Automation of M Typewater, B.E. (Engl. Bretanisation of M Typewater, Martin and Martin and M Typewater, Martin and M Typewater, Martin and M Typewater, M Typewater	Contras Id. (Co (Edificate) Menta Operation Bonds below Prince and Transfer and Tra	Polystov, A.A. [Teo Commist Labor En Assistance AVALIANE: Librar	Card 3/3	









L 1724-66

ACCESSION NR: AP5021224

melting and less fluid AN-T3 flux is used for heavier sections. A universal AN-T7 flux, the substitute for all previously used fluxes, was developed in 1961. VII titanium electrode wire was used in welding both VT1 titanium and 0.14 titanium alloy The welding is done with direct current and standard welding equipment. Prior to welding, rolled, extruded, or forged components are shot-blasted, pickled for 4-8 min in a solution (350 cm³ HCl, 650 cm³ water, and 50g sodium fluoride) at 50-60C, and degreased. For sections up to 14-16 mm thick, a square butt joint is used; for heavier sections, a V-joint with a 90 deg angle. Parts 30--35 mm thick are joined in several passes under an AN-T7 flux. For short welds, copper or steel back-up bars provide sufficient protection. However, argon backing must be used in welding long joints. Heavy rings, flanges, and similar parts are welded by the electroslag method. At the "Progress" plant (Berdichev, USSR), flanges 2260 mm in diameter consisting of seven forged VTL segments (135 x 135 mm), and rings 800 mm in diameter from 60 x 120 mm VT1 forgings I have been successfully electroslag welded in a copper, water-cooled mold with an AN-T2 oxygen-frue flux in an argon atmosphere. Titamium electrode wire is annealed in a vacuum of 1044 mm Hg at 800-8500 to reduce the hydrogen content below 0.004% and thus to prevent cold cracking of the weld metal. The oxygen content in the wire should not exceed 0.10-0.12%. Dense, sound welds are usually obtained with a strength and corresion resistance roughly

Card 2/3

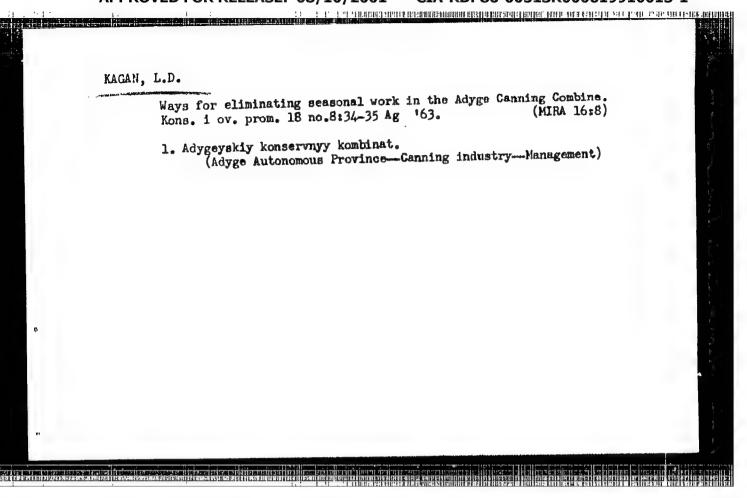
,		į		
L 1724-66		1		
ACCESSION NR: AP5021224			18)
equal to those of the parent mess. Orig. art. has: 4 figure ASSOCIATION: Institut elektron Institute, AN UkrSSR); Penzanski	res and 4 tables. svarki im. Ye. O. Pato Ly filial NIIkhimmash	na AN UKTSSE (Pansa Dapan	(Blactric Westgrand of the	elding
NIIkhimmash): Berdichevskiy zav	vod "Progress" (Berdic	hev plant "	SUB CODIS	
SUBMITTED: 06Mar65	ENCL: 00	1 .		
NO REF SOV: 003	other: 000		ATD PRESS	14046
	•			
	•		The second secon	
	÷			
			4 4	

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619910013-1"

KUTIDV, I.I.; KAGAN, L.D.

What is the result of the misuse of economic accountability. Kons.
i ov. prom. 13 no.1:33 Ja '58. (MIRA 17:2)

1. Yeyskiy konservnyy zavod.
(Ganning industry--Accounting)



VAYNSHTEYN, B.P.; KRUGLIKOV, V.Ya.; RAPOPORT, I.B.; VASIL'YEVA, Z.A.; KAGAN, L.Kh.; PLOKHINSKAYA, Ye.A.; VOLYNSKIY, A.V.; MJZOVSKIY, V.V.; KLEVTSOVA, V.P.; Prinimali uchastiye: MICHAN, A.I.; KONOVAL'CHIKOV, L.D.; AYNSHTEYN, V.G.; KVASHA, V.B.; CHELYANOVA, D.P.; ZAYTSEVA, A.F.; ANDREYEVA, T.A.

New way to synthesize oxygen compounds from carbon monoxide and hydrogen over iron-copper catalysts. Trudy VNII NP no. 9:177-196 '63. (MIRA 17:6)

ER DE LESSE EN LA PRESIDENCIA DE CONTRAR ARRESTORMERS MANDERS MANDERS MANDERS DE CONTRAR DE CRESTE DE LA PRESENTACIÓN DE LA PRE

VAYNSHTEYN, B.P.; KAGAN, L.Kh.; RAPOPORT, I.B.; KRUGLIKOV, V.Ya.; KAPKIN, V.D.

Hydrogenation of some oxygen-containing compounds over precipitated iron-copper catalysts. Neftekhimia 2 no.1:100-105 Ja-F 162. (MIRA 15:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo shidkogo topliva.

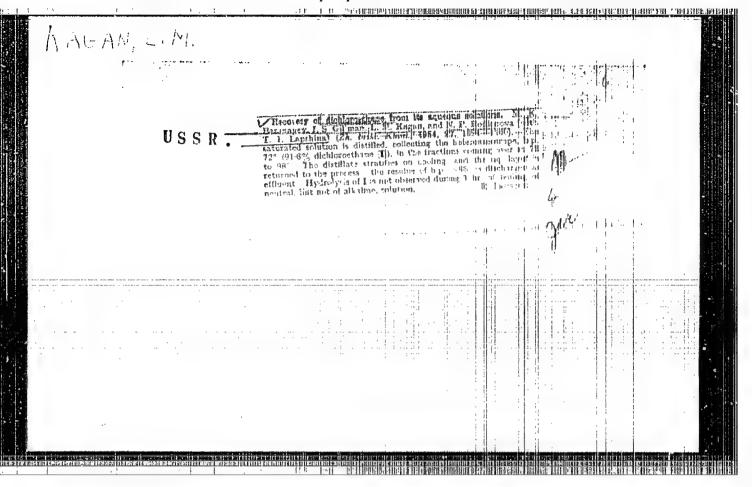
(Hydrogenation) (Gatalysts)

ELL LOS CONTROL CONTRO

KAGAN, L.Kh.; KLYACHKO-GURVICH, A.L.; RAPOPORT, I.B.; RUBINSHTEYN, A.M.

Effect of the conditions of the reduction of inco-copper catalysts on their physicochemical properties. Khim. 1 tekh. topl. i masel 10 no.3:14-16 Mr '65. (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.



MIKHAYLOVSKAYA, Ye.I.; KAGAN, I.M.

Chemical composition and nutritive value of some food concentrates.

Kons.i ov. prom. 15 no.6:18-19 Je '60. (MIRA 13:9)

1. TSentral'nyy nauchno-issledovatel'skiy institut konservnoy i ovoshchesushil'noy promyshlennosti.
(Food, Consentrated)

KHAKHINA, L.P.; USKOVA, L.S.; KAGAN, L.M.

Objective method for evaluating the coloring of potato chips.

Kons. i ov.prom. 18 no.9:37-38 S '63. (MIRA 16:9)

1. TSentral'nyy nauchno-issledovatel'skiy institut konservnoy i ovoshchesushil'noy promyshlennosti.

(Potato chips—Testing)

BESKIN N.N. (Moskva); KOTOK, A.A. (Grodno); STEKLETSKIY, E.Y. (Grodno); ELISH, G.M. (Baku); KAQAR, L.S. (Baku); KDELEY, Ta.I. (Ufa).

"Geometry textbook" by N.N. Hikttin, A.I. Fetisov. Reviewed by N.M. Beskin and others, Mat. v shkole no.4:57-69 S-0 '57.

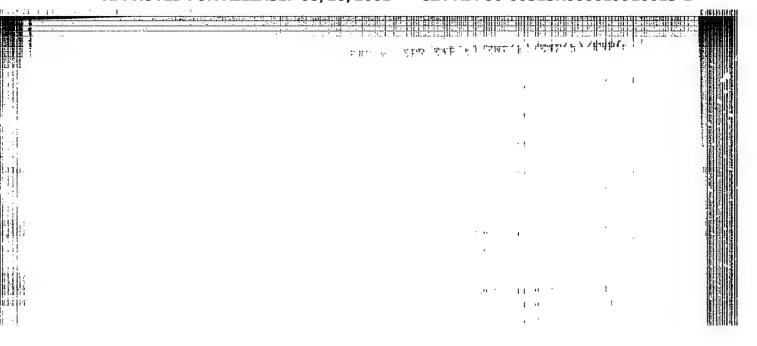
(Geometry) (MIRA 10;8)

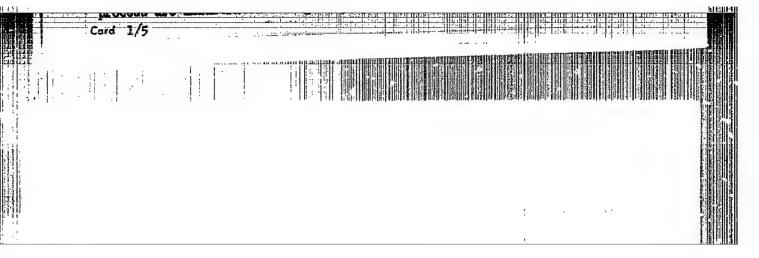
(Nikitin, N.N.) (Fetisov, A.I.)

and the state of the constitution of the national and the national state of the sta

GOLOVINOV, M.F.; AYUPOV, R.N.; KAGAN, L.S.; LESHKEVICH, G.G.; KURBATOV, V.I.; KALUGIN, A.A.

Extrusion of pipe of varying cross sections. TSvet. met. 36 no.8:72-75 Ag '63. (MIRA 16:9) (Extrusion (Metals)) (Pipe, Aluminum)

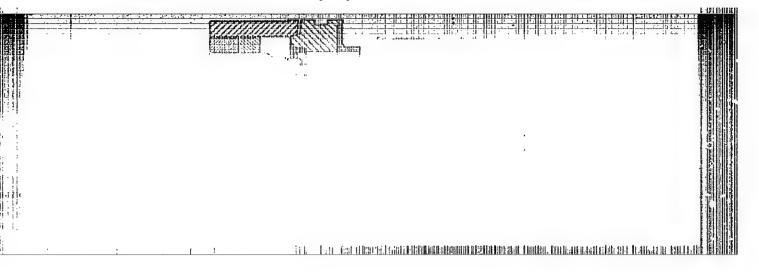


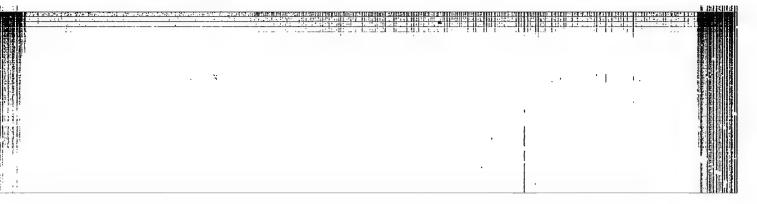


APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619910013-1"

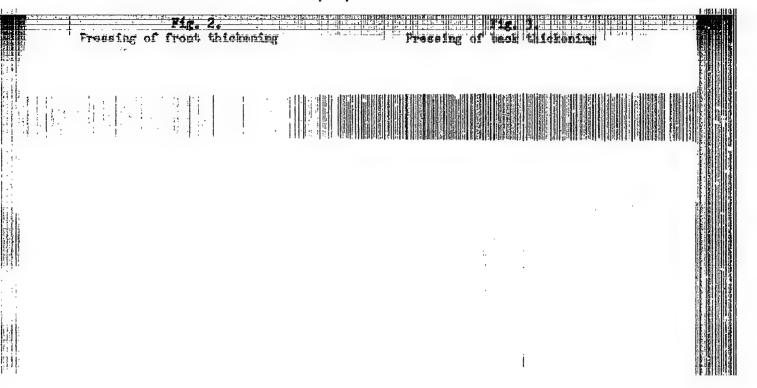


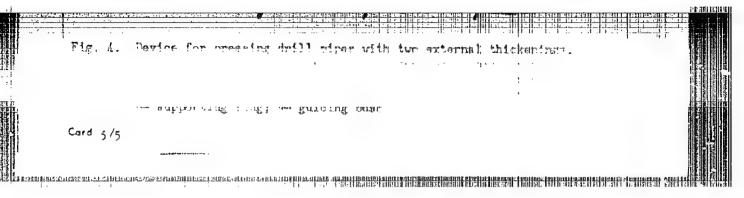






APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619910013-1"





IODAS, V.O.; KAGAN, L.V.; LINDER, V.B.; NARUZHNYY, B.V.

Oscilloscopic attachment for the electrocardiograph. Med. prom.
14 no. 10:48-49 0 '60.

1. Mediko-instrumental'nyy zavod "Krasnogvardeyets".

(OSCILLOGRAPH) (ELECTROCARDIOGRAPH)

And the second second	I. Palekha's crew. Stroitel' no.4:12 Ap '58.	(MIRA	11:5)
	l.Nachal'nik otdela truda zarobotnoy platy tresta No. 87. (KharkovBuilding)		·

KAGAN, M., doktor tekhn.nauk; PEREL'HAN, inzh.

Pressure of grain on granary walls. Muk-elev.prom. 25 no.1:17-20
Ja '59.

1. Moskovskiy inzhenerno-atroitel'nyy institut imeni V.V.Kuybysheva (for Kagan). 2. Moskovskiy inzhenerno-ekonomicheskiy institut imeni S. Ordzhonikidze (for Perel'man).

(Grain--Storage)

GUKAYLO, Mikhail Yakovlevich; MOZES, Ye.N., insh., retmenzent; KAGAN, M.A., insh., red.; SOROKA, M.S., red.

[Basic principles in designing optical control and adjustment instruments] Osnovnye printsipy konstruirovaniia opticheskikh kontrol'no-justirovochnykh priborov. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1959. 124 p. (MIRA 12:7) (Optical instruments)

Category: USSR / Physical Chemistry - Kinetics. Combustion.

Explosives. Topochemistry. Catalysis.

B-9

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 30047

Author : I. Korniyenko V. P., Petrenko V. V.; II. Korniyenko V. P., Kagan

M. B., Spendiarov N. N.; III, Korniyenko V. P., Selikhova M. N.,

Remmer N. S.

Inst : Khar'kov University

Title : I. Thermal Decomposition of Nickel Oxalate. II. Kinetics of Thermal

Decomposition of Manganese Oxalate. III. Thermal Decomposition of

Cobalt Oxalate.

Orig Pub: Uch. zap. Khar'kovsk. un-ta, 1956, 71, 77-87; 89-94; 95-102.

Abstract: I. A volumetric study of the kinetics of decomposition of dihydrate

of nickel oxalate (I) at $343-369^{\circ}$. It is shown that the equation of Yerofeyev (1) is applicable to this process. The exponent n appearing in this equation is equal to 1 at low temperatures, increasing with temperature and reaching 1.66 at 369° . With rise in temperature

the velocity maximum is shifted to 50% decomposition. Energy of acti-

Card : 1/3 -20-

Category: USSR / Physical Chemistry - Kinetics. Combustion.

Explosives. Topochemistry. Catalysis.

B-9

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 30047

vation (E), calculated from temperature dependence of valocity constant, is 42.3 kcal/mole; from temperature dependence of the duration of the reaction, is derived the value E # 45.3 kcal/mole. Decomposition of I occurs in stages: 1) NiC 0 = NiO + CO + CO; 2) NiO + CO - Ni + CO . By approximate thermodynamic calculations it is shown that the decomposition of I with formation of metal oxide and acid anhydride is more advantageous, from energy standpoint, than the decomposition to metal and radical. By means of the rule of Luginin the heat of formation value of I has been estimated and was found to be of 206 kcal.

II. A study was made, between 369 and 420°, of the thermal decomposition of the dihydrate of manganese complate (II). Decomposition of II takes place according to equation (1), in which the value of exponent n varies from 1.07 to 1.42, depending on temperature and percentage of decomposition. Energy of activation, E = 41 kcal/mole,

Card : 2/3

-21-

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619910013-1

5(4) 507/76-33-9-8/37

AUTHORS: Paletnik, L. S., Vincgorov, G. R., Kagan, M. B., Kuropyatrik, V. E.

TITLE: Investigation of Heterogeneous Multicomponent Systems With the

Aid of the Phase Mass Measuring Method. I

PERIODICAL: Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 9, pp 1939-1944

(USSR)

ABSTRACT: The equilibrium in the liquid heterogeneous multi-component

systems was investigated and the corresponding state diagrams were plotted. A new method was worked out resting on the determination of the mass of the various components and the phase masses in equilibrium. Several publications are cited in the introduction concerning the investigation of liquid multi-component systems, and the following authors are mentioned among others: V. V. Udovenko, L. G. Fatkulina, D. P. Belotskiy, M. L. Krupatkin. Several investigations were performed to fix the proper method of phase mass determination and the following was chosen: In order to separate the mixture

a container with acute base is used (Fig 1) in which (down to

Card 1/3 the base point) a special pipette is dipped with one one of the

sov/76-33 -9-8/37

Investigation of Heterogeneous Multicomponent Systems With the Aid of the Phase Mass Measuring Method. I

capillary tube so that phase separation is possible down to a small drop. The weight was determined with the aid of a precision balance (with damper). The fluid was sucked off with a glass syringe. The weight of the sucked off liquid layer is determined by weighing the fluid remaining in the container and by the difference from the initial weight. In order to determine the position of the solubility curve (binodal curve) of a ternary system the method of isothermic titration of a two-component mixture by a third component was applied. The position of the accodes was graphically determined. The applicability of the described method was investigated in the system aniline-parbon tetrachloride-n-heptane for simultaneous bromometric determination of aniline in its various phases (Table 1). As shown by the method the phase composition may be determined up to an accuracy of 0.2%. Further the systems water-methanol-dichlorethane, water-isopropanol-dichlorethane were investigated (Ref 21) (Tables 2,5) as well as the system aniline-chloroform-n-heptane, that segurates into two layers and that was not hitherto investigated, were investigated at 18+0.50. It was observed that chloroform is equally distri-

Card 2/3

SO7/76-33-9-8/37 Investigation of Heterogeneous Multicomponent Systems With the Aid of the Phase Mass Measuring Method. I

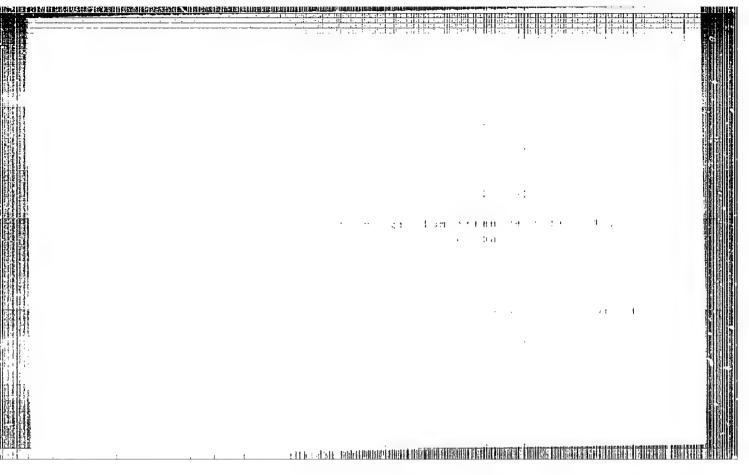
buted in both layers. The critical solution contains 36.4% aniline, 29.8% chloroform and 33.8% n-heptane. There are 5 figures, 5 tables, and 28 references, 6 of which are Soviet.

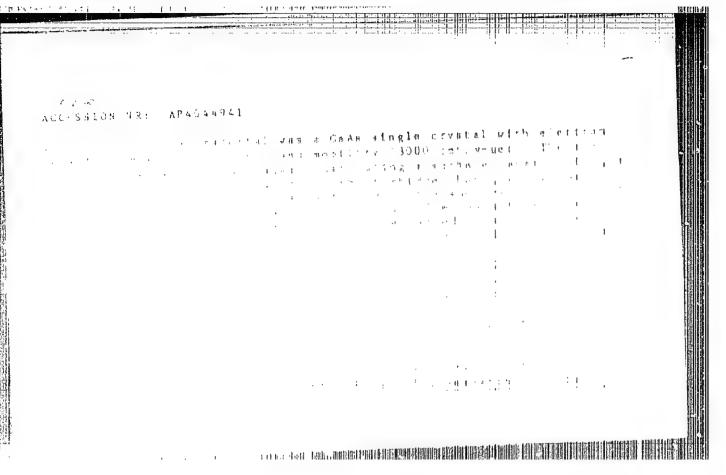
SUBMITTED:

February 19, 1958

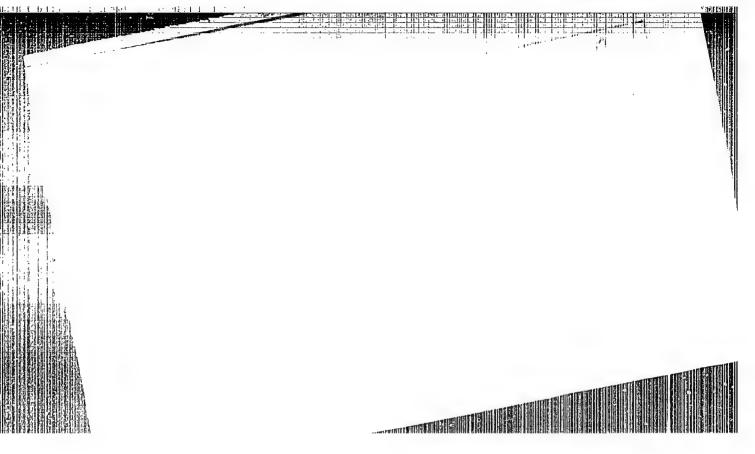
Card 3/3

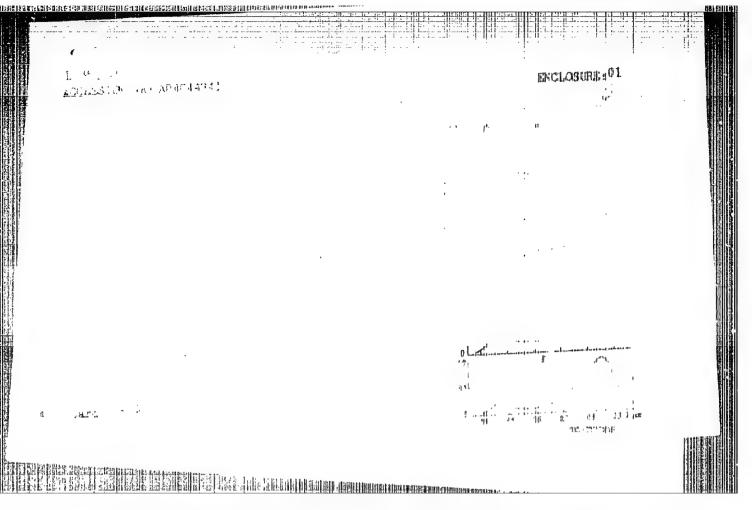
"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619910013-1

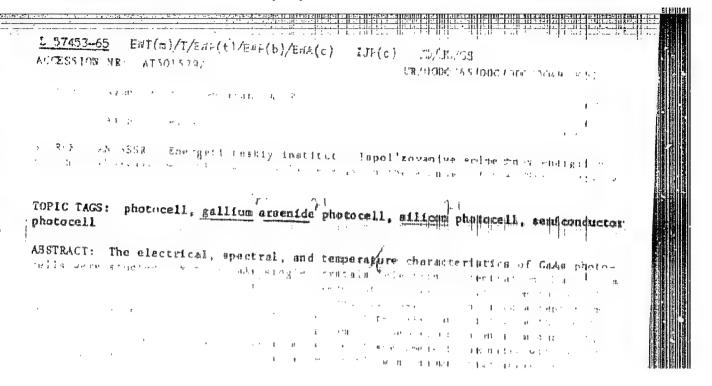


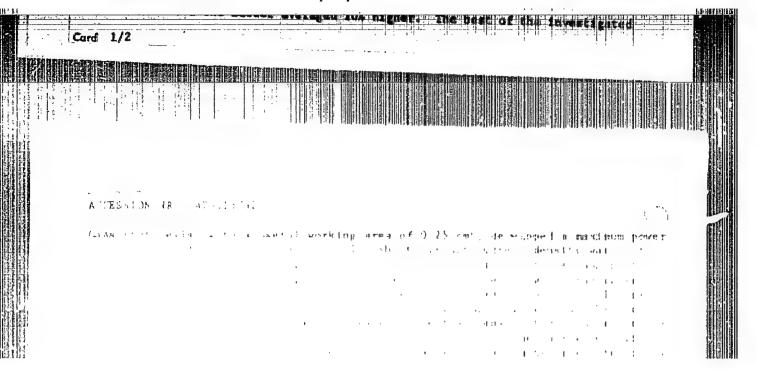


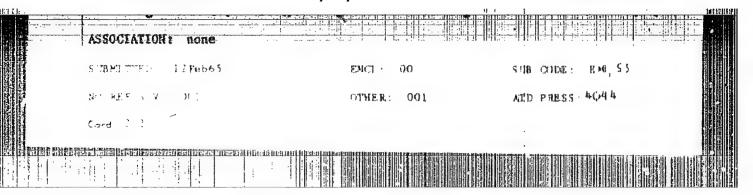
"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619910013-1

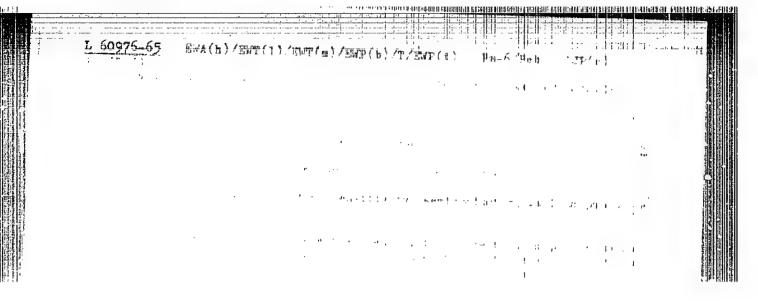


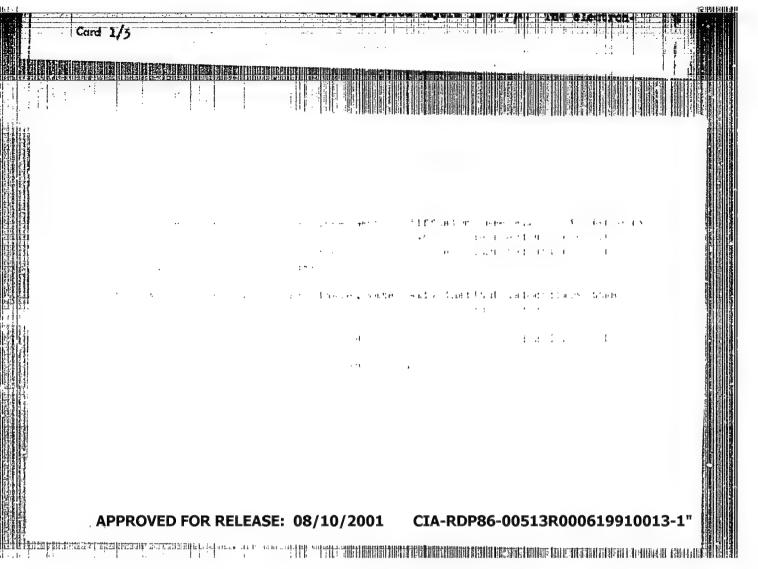


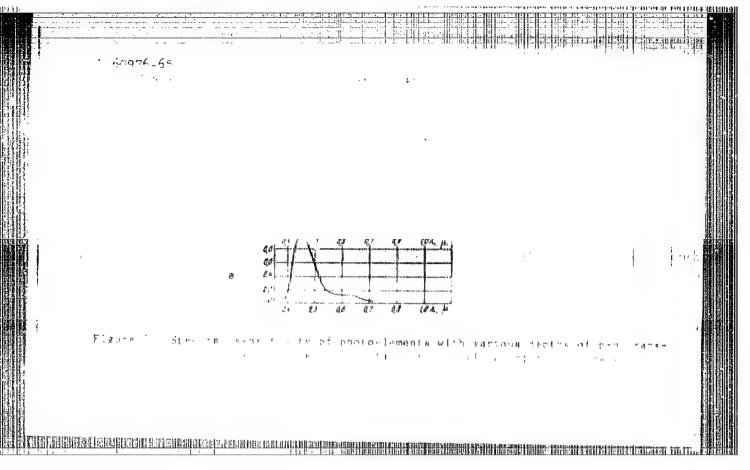












L 6337-66 EWT(m)/T/EWP(t)/EWP(b)/EWA(c) IJP(c) JD/JG

ACCESSION NR: AP5019882

UR/01/91/65/007/008/293/2530

AUTHOR: Gutkin, A. A.; Kagan, M. B.; Sedov, V. Ye.; Chernow, Ya. I.

TITLE: Effect of orientation of GaAs crystals on the depth and photoelectric properties of diffusion pn junctions

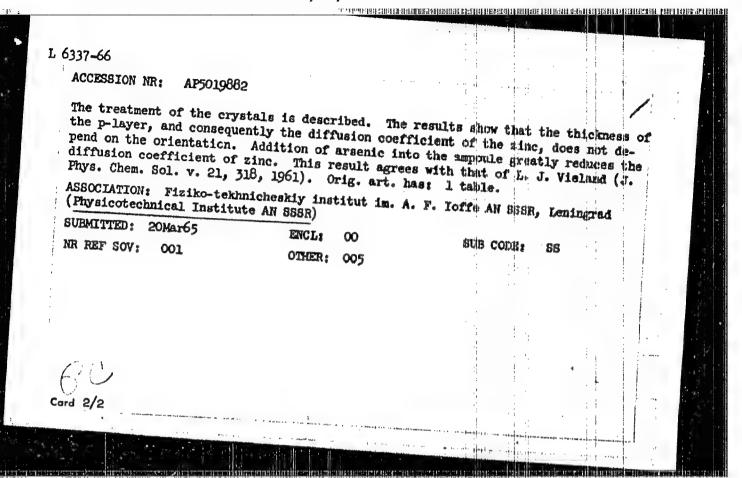
SOURCE: Fizika tverdogo tela, v. 7, no. 8, 1965, 2538-2539

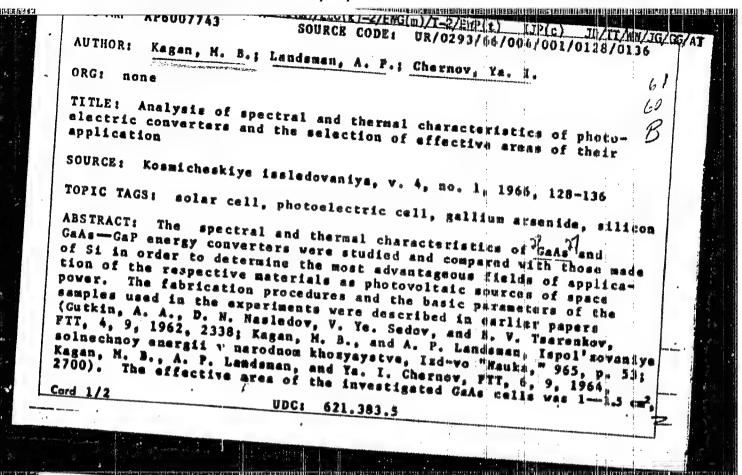
TOPIC TAGS: gallium arsenide, pn junction, zinc, photoelectric cell, spectral distribution, photosensitivity

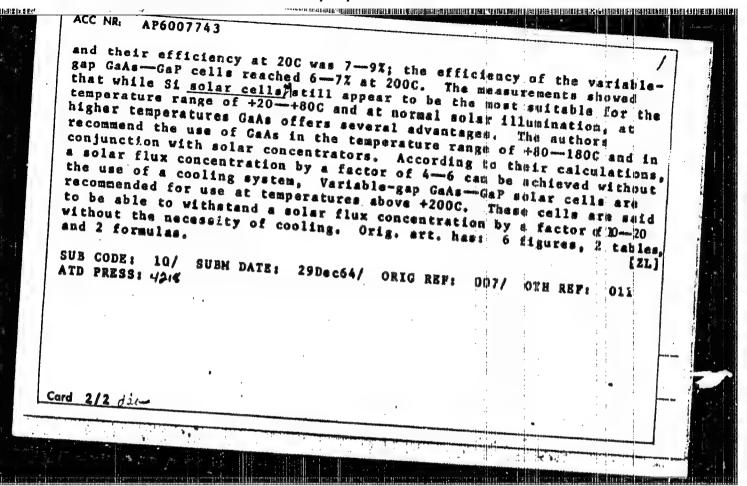
ABSTRACT: In view of some contradiction in earlier results (M. T. Minamoto and H. T. Malafi, J. Appl. Phys. v. 34, 1876, 1963) the authors have investigated the influence of orientation on the rate of diffusion of zinc by producing deep in junctions in plates having the same orientations as used in the preparation of photocells. The spectral distributions of the photosensitivity at photon energies 1.3--3 ev, of diffusion GaAs photocells which the authors produced under identical conditions, turned out to be practically the same, in spite of the fact that earlier results indicated that the position and form of the p-n junction should depend on the concentration and distribution of the dislocation. The initial material was single-crystal GaAs of n-type with electron density (2--3) x 10-17 cm⁻³ and mobility 3500--4000 cm²v⁻¹sec⁻¹ grown horizontally by the Bridgman method.

Card 1/2

1002000







HES HAM

L 08129-67 EWT(m)/EWP(t)/ETI IJP(c) JD ACC NR: AP6033579 SOURCE CODE: UR/0181/66/008/010/3097/3099 AUTHOR: Gutkin, A. A.; Kagan, M. B.; Magerramov, E. M.; Chernov, Ya. I.; Gutkin, A. Kagan, M. B.; Magerramov, E. M.; Chernov, Ya. I. ORG: Physicotechnical Institute im. A. P. Ioffe, AN SSSR, Leningrad (Fizikotekhnicheskiy institut AN SSSR); All-Union Scientific-Reseach Institute of Current 60 Sources, Moscov (Vsesoyuznyy nauchno-issledovatel'skiy institut istochnikov toka) TITLE: Spectral characteristics of GaP-GaAs photocells in the photon energy region SOURCE: Fizika tverdogo tela, v. 8, no. 10, 1966, 3097-3099 TOPIC TAGS: gallium arsenide, gallium phosphide, gallium optic material, pn junction, photoelectric cell, photosensitivity ABSTRACT: This is a continuation of earlier work (Kosmicheskiye issledovaniya, IV, 128, 1966 and preceding papers) where the possibilities of GaP-GaAs p-n junctions were first revealed and studied. The present paper describes investigations of the photosensitivity of junctions prepared by diffusion of zinc in a GaAs plate in which a region of variable composition GaP As (1-x) was produced beforehand by heating in phosphorus vapor. The preparation procedure and some properties of such a Junction Vere described earlier. The illuminated surface was subjected to various degrees of Card 1/2

L 08129-67

ACC NR: AP6033579

etching. The tests consisted of plotting the photocurrent spectra and the spectrum of the diffuse reflection from the surface. X-ray analysis of the junction structure, and the presence of a peak near 3.6 ev, reveal that the surface layer of the photocell contains not less than 90% of GaP and consequently its photosensitivity spectrum is governed by the band structure of GaP. Comparison of the reflection and photosensitivity spectra shows that the photocurrent per incident absorbed photon is constant (at hw 22.5-4.6 ev) and then drops off slightly towards 5.4 ev. This is also confirms the GaP-type band structure, which precludes any possible increase of the quantum yield for photons with energy lower than \$ 5.2 ev, when the internal photoeffect and impact ionization come into play. The fact that the quantum yield remains constant over a wide range of photon energies extending over different parts of the Brilluoin zone shows that the minority nonequilibrium carriers (electrons) excited by the photons in different parts of the conduction band have time to go over to the equilibrium state at room temperature within a time shorter than the carrier lifetime (< 10-9 sec). Consequently the drop in photosensitivity in the 2.6-3.5 ev region, which decreases strongly when the cell surface is etched, may be due to an increased role of surface recombination with increasing absorption coefficient, and not to a decrease in lifetime. The authors thank A. S. Toporets, A. V. Sheklein, and N. B. Rekant for measuring the diffuse-reflection spectra. Orig. art. has: 1 figure.

SUB CODE: 20/ SUBM DATE: 13Apr66/ ORIG REF: 007/ OTH REF:

Cord 2/2 nst

医眼球

L 08129-67 EWT(m)/EWP(t)/ETI IJP(o) ACC NR: AP6033579 UR/0181/66/008/010/3097/3099 SOURCE CODE: AUTHOR: Gutkin, A. A.; Kagan, M. B.; Magerramov, E. M.; Chernov, Ya. I.; Gutkin, A. Kagan, M. B.; Magerramov, E. M.; Chernov, Ya. I. 63 60 ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fiziko-tekhnicheskiy institut AN SSSR); All-Union Scientific-Researh Institute of Current B Sources, Moscov (Vsesoyuznyy nauchno-issledovatel'skiy institut istochnikov toka) TITLE: Spectral characteristics of GaP-GaAs photocells in the photon energy region up to 5.4 ev SOURCE: Fisika tverdogo tela, v. 8, no. 10, 1966, 3097-3099 TOPIC TAGS: gallium arsenide, gallium phosphide, gallium optic material, pa junction, photoelectric cell, photosensitivity ABSTRACT: This is a continuation of earlier work (Kosmicheskiys issledovaniya, IV, 128, 1966 and preceding papers) where the possibilities of GaP---GaAs p-n junctions were first revealed and studied. The present paper describes investigations of the photosensitivity of junctions prepared by diffusion of sinc in a GaAs plate in which a region of variable composition GaP_As(1-x) was produced beforehand by heating in phosphorus vapor. The preparation procedure and some properties of such a junction were described earlier. The illuminated surface was subjected to various degrees of

3

L 08129-67

ACC NR: AP6033579

etching. The tests consisted of plotting the photocurrent spectra and the spectrum of the diffuse reflection from the surface. X-ray analysis of the junction structure, and the presence of a peak near 3.6 ev, reveal that the surface layer of the photocell contains not less than 90% of GaP and consequently its photosensitivity spectrum is governed by the band structure of GaP. Comparison of the reflection and photosensitivity spectra shows that the photocurrent per incident absorbed photon is constant (at he 22.5-4.6 ev) and then drops off slightly towards 5.4 ev. This is also confirms the GaP-type band structure, which precludes any possible increase of the quantum yield for photons with energy lower than ~ 5.2 ev, when the internal photoeffect and impact ionization come into play. The fact that the quantum yield remains constant over a wide range of photon energies extending over different parts of the Brilluoin zone shows that the minority nonequilibrium carriers (electrons) excited by the photons in different parts of the conduction band have time to go over to the equilibrium state at room temperature within a time shorter than the carrier lifetime (4 10-9 sec). Consequently the drop in photosensitivity in the 2.6-3.5 ev region, which decreases strongly when the cell surface is stohed, may be due to an increased role of surface recombination with increasing absorption coefficient, and not to a decrease in lifetime. The authors thank A. S. Toporets, A. V. Sheklein, and M. B. Rekant for measuring the diffuse-reflection spectra. Orig. art. has: 1 figure.

SUB CODE: 20/ SUBM DATE: 13Apr66/ ORIG NEF: 007/ OTH NEF: 005/ ... TELECE: ATD PRESS: 5102

card 2/2 net

ACC NR. AP7002713

(A)

SOURCE CODE: UR/0115/66/000/012/0081/0082

AUTHOR: Berman, L. S.; Gliberman, A. Ya.; Kagan, M. B.; Landsman, A. P.

ORG: none

TITLE: Light-sensitive devices of silicon and gallium arsenide, based on barrier

SOURCE: Izmeritel'naya tekhnika, no. 12, 1966, 81-82

TOPIC TAGS: photovaricaps, photoelectric cell, silicon semiconductor, semiconductor device, gallium arsenide, arsenide, silicon compound, photosensitivity

ABSTRACT:

Semiconducting light-sensitive devices ("photovaricaps") based on barrier layer cells made of silicon and gallium arsenide single crystals and having low series resistance were developed and tested. The size of the photovaricaps ranged from 2 x 2 mm to 10 x 10 mm. The capacity for a unit of area for silicon photovaricaps without external voltage C(0) was approximately 0.027 to 0.030 $\mu\text{F/cm}^2$, and for gallium arsenide photovaricaps 0.38 to 0.050 $\mu\text{F/cm}^2$. The photovaricaps can operate in a range of sonic and ultrasonic frequencies. The most important parameter of the photovaricaps is the photosensitivity coefficient characterizing the relative change of capacitance per unit of luminous flux Φ . The capacitance temperature coefficient for

Card 1/2

UDC: 621.383

ACC NR: AP7003153 SOURCE CODE: UR/0368/66/005/006/0770/0773

AUTHOR: Kagan, M. B.; Koltun, M. M.; Landsman, A. P.

ORG: none

TITLE: Reflection coefficient of highly-doped GaAs in the spectral range from 0.2 to 25 u

SOURCE: Zhurnal prikladnoy spektroskopii, v. 5, no. 6, 1966, 770-773

TOPIC TAGS: solid state laser, semiconductor laser, gallium arsenide, tasur maturial

ABSTRACT: Measurements of the regular-reflection coefficient are given for single-crystal p-type GaAs samples with Zn doping (for carrier concentration from 1.7 to $15 \cdot 10^{19}$ cm⁻³), and n-type samples (for a carrier concentration of $3 \cdot 10^{15}$ cm⁻³). An SF-4 spectrophotometer is used from 0.2 to 0.75 μ and an IKS-14 spectrophotometer from 0.75 to 25 μ . Several samples were chemically polished and their surface irregularities did not exceed 0.3 μ , while one sample had irregularities of about 1 μ and exhibited a lower reflection coefficient in the ultraviolet and optical region of the spectrum. In the optical region the carrier concentration has little influence on reflection properties. In the infrared, the reflective power increases considerably with free carrier concentration, while at the same time the minimum occurring at wavelengths where the index of refraction approaches unity is shifted

Card 1/2

UDC: 535,39

TO THE REPORT OF THE PROPERTY OF STREET WHITE THE PROPERTY HAVE A STREET FOR THE PROPERTY OF T

ACC NR: AP7003153

toward shorter lengths, approximately from 12 to 4 μ . The reflection coefficient can be brought down from 32 to 0.5—1.0% in any given part of the optical spectrum by SiO coatings of suitable thickness (0.21 μ), while MgP, and SiO₂ coatings (0.21 μ) are not as effective. Two methods of sharply reducing the reflection from highly-doped single crystals in the 3—25 μ region are discussed. One of these involves coating the surface with irregularities 10—30 μ thick and treating the same chemically; the other — coating the surface with a layer of organic silicon varnish 10—40 μ thick, highly absorbing in the infrared but transparent in the 0.4—1.0 μ regions. In the infrared region, use of silicon-based coatings can increase the thermal radiative power of GaAs surface (at 25°C) from 0.49—0.51 to 0.8—0.92. These coatings do not damage the surface, and good diffused junctions are still possible. One can expect that the use of the above procedures will considerably improve the performance of lasers and solar cells. Orig. art. has:

SUB CODE: 20/ SUBM DATE: 22Dec65/ ORIG REF: 001/ OTH REF: 002

Card 2/2

KAGAN, h.D., kand. ekon. m.m., archiv., tre. red.

[Development of electric power emgracering in the countries of the socialist camp; a survey! kazvitie elektoenergetiki stran sotsialisticheskogo lagerra. obzor. Mockvu, Vses. intpo proektirovaniiu organizats: i energeticheskogo stroitel!—stva, 1962. 83 p.

(NIRA 17:7)

(MIRA 14:1)

PALATNIK, L.S.; VINOGOROV, G.R.; KAGAN, M.G.

Study of multicomponent heterogeneous systems by the phase mass method. Part 2. Zhur. fiz. khim. 34 no. 11:2396-2404

N 160.

KAGAN, M. I.

Kagan, M. I. "Cases of double innate luxation of the small head of the radius," Zdravookhraneniye, Sov. Latvii, 1948, Symposium 2, p. 112,-17

SO: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949)

KAGAK, H.[1.]

USSR/Medicine - Pediatrics

Medicine - Lipcid Granulomatosis of the Bone

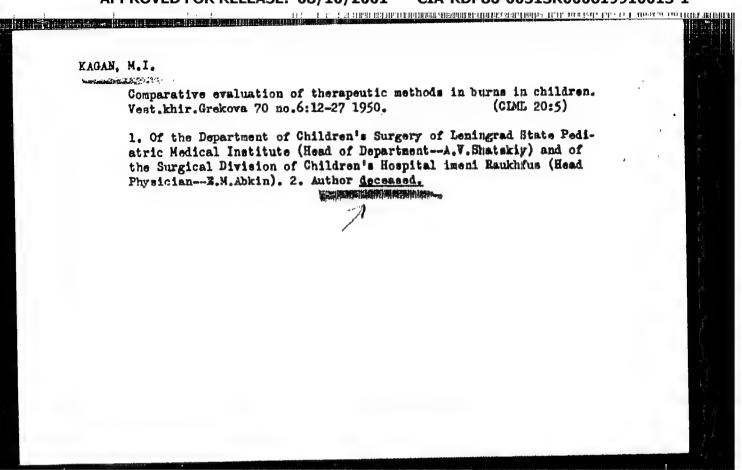
Nov/Dec 48

"Problem of Xanthomatosis Generlista Ossium," L. M. Linder, M. Kagan, Pathoanat and Surg Dept, Hosp imeni Raukhfus, Leningrad, 4 pp

"Vop Ped i Ckhran Mater i Det" No 6

Desrites two cases of Schuller-Christian's disease in male children, with three photographs.

PA 43/49T75



BOGOYAVLENSKAYA, L.B.; VIL'SHANSKAYA, P.L.; MATVEYEVA, V.H.; SAKHAROVA, P.K.; KUZNETSOVA, Y.V.; KAGAN, M.I.

Htiological structure of intestinal diseases of infants; author's abstract. Zhur.mikrobiol.,epid.i immun. 30 no.11:113 N '59.

(NIRA 13:3)

1. Iz Moskovskoy gorodskoy sanitarno-epidemiologicheskoy stantsii. (INFANTS--DISMASES) (INTESTINES--DISMASES)

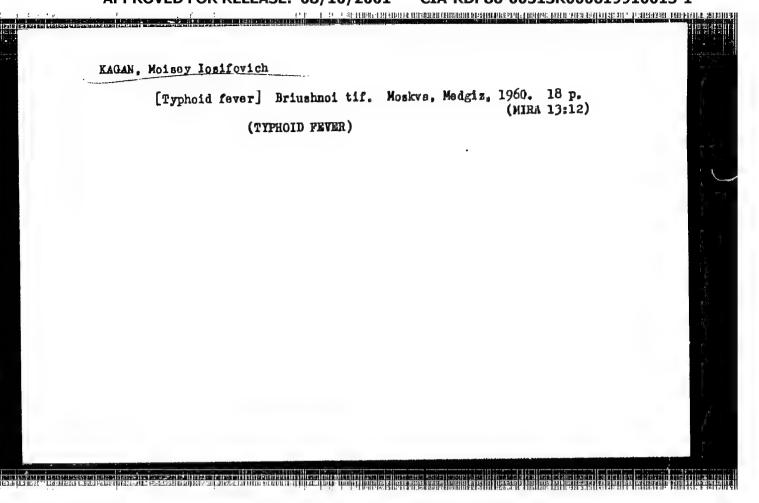
KAGAN, M.I.; YEREMIH, A.I.

Drying aspirin on drum-dryers, Hed.prom. no.4:13-16 O-D 155.

(MLRA 9:12)

1. Hoskovskiy salitsilovyy zavod

(ACETYLSALICTLIC ACID, preparation of drying on drum-dryers)



KAGAN, M.I.; KUZNETSOVA, Ye.V.; VIL'SHANSKAYA, F.L.; BOGOYAVLENSKAYA, L.B.;
MATVEYEVA, V.N.; SAKHAROVA, P.K.

Epidemiological observations on patients with colienteritis. Zhur.
mikrobiol. epid. i immun. 32 no.10:78-80 0 '61. (MIRA 14:10)

1. Iz Gorodskoy sanitarno-epidemiologicheskoy stantsii i sanitarnoepidemiologicheskoy stantsii Dzerzhinskogo rayona Moskvy.

(ESCHERICHIA COLI) (INTESTINES.—DISEASES)

BABICHEMKO, S.I.; BOCDANOV, A.A.; GORN, L.S.; KAGAN, M.J.; KRYLOV,
L.N.; OL'DEKOP, L.G.; KHAZANOV, B.I.; MELESHKO, V.K., red.;
DRUZHININA, L.V., tekhn. red.; POPOVA, S.M., tekhn. red.

[Radiometric process instrumentation] Kontrol'no-izmeritel'naia radiometricheskaia apparatura. [By] S.I.Babichenko i dr.
Moskva, Gosatomizdat, 1963. 148 p. (MIRA 16:12)

(Radiometry)

1. 46684-66 EVT (1)/EWF (+) ACC NRi AP6020734 SOURCE CODE: UR/Ch21/66/000/003/0129/013	
AUTHOR: Bunimovich, A. I. (Moscow); Kagan, M. L. (Moscow) ORG: none	
TITIE: Free-molecular flow of gas in flat channels and gratings SOURCE: AN SSSR. Izvestiya. Mekhanika zhidkosti i gaza, no. 3, 1966, 129-131	
TOPIC TAGS: gas flow, rarefied gasdynamics, free molecular flow	5
ABSTRACT: The grating in question is assumed to be made up of thin ideally-heat-conducting elements whose dimensions are smaller than the mean free paths of the molecules in the carefied gas. These molecules are assumed to have a Maxwellian velocity distribution. The authors calculate the number of molecules incident on each grating element directly and as a result of reflection from other elements, and determine from this calculation the aerodynamic characteristics of the gas flow (force acting on grating). The flow in a flat channel and the flow around a grating made up of flat plates are obtained as limiting cases of the general calculations. Orig. art. has: 3 figures and 16 formulas.	
SUB CODE: 20/ SUBM DATE: 13May65/ ORIG REF: 002/ OTH REF: 002	

A LANGE OF THE PARTY OF THE PAR					
Plastorint					
Application of sectionalized grounding methods to plasturing. Biul. stroil. tekh., 2, no. 1, 195 Enzh.; Minmashstroy, Trest no. 22					
					The state of the s
					1
				•	Š
					16"
				,2	
SO: Monthly List of Russian	Accessions, Li	brary of Congr	ress,ril	1953 , U n	cl.

-	/\ •	. 1	71511	1)	757 553		. 3				t	MOT/1700	ž	æ	\$	212	312	217	u	:	
	307 /100	,	956. Lil-Onion Tes:	Louisatys po	ices; ices; sce; sce; sce; liyachuk i A.Ye. i A.Ye.	Confer-	S Carth	200.00 00.00 00.00 00.00	åy.	8 87d in		NO.		LNOV.	estra!		40	Jete of	-ugus		
			kopii, 19 he 10th J is spectr (Series: inted.		Masp. Ed.); Rical Stlences anital Stlences; anital Sclences; anital Sclences; L. E. Milmovakaya, L. Milmovakaya, L. Milmovakaya, L. Milmovakaya, L. Milmovakaya, L. Milmovakaya, L. Milmovakaya, al Schences; al Sche	Lechnica Li-Onion	urees. The contract of re-	metel ve	tables of	or sall		#: î	Speatrai	Prizest, V.A., G.V. Veynberg, A.K. Esydell, and A.A. Parnur Isotopie Speetrum Analysis of Aydrogen-deuteron Matures	Spectral of Mydrogen In Matale	Tidre, 6.1., B.D. Luft, and Tu. Y. Matorin. Hes of das- distincte Davises as Light Sources in the Spectrus Archysis of Inert Gases	Dockors, O.P., and L.P. Enguerskays. Spectrum Analysis of Maltisomponent Gas Matures	Drovskiy, I.B., and 3.8, Ectnikov. Unit for the dealysts of a paint Secal Seculos	and B.R. Kaggo, Spettral Analytic Determin- on-mid mydfogen in Titanium		
	ATION		epektroakopii, fals of the lot 2: Atomic Spe 568 p. (Serie	Buck SSSR	ademisism, (Be and Mischanki) and Mischanki and Mischanki and Mischanki and Statence and Statence and Statence and Mischanki and Anderstate a	the 10th A	titutes yther so y: spec	Die C	deterral solope freplis	1, 200		. (Co	by the	fell', an	Studios	12 th	Speetre	and the	tral fra		
İ	C ESTIDIT		(Ne po 1958.	Akademiya nauk 555R.	의 선생 병원 이 영화를 받는 , 선생	od at the	1641 ins 18t and ectroscop	thecholic theory,	Peetral appear			a Coafer	A K. II. N	A.K. Ley	ganov.	Sources	Takaya.	nikov.	n in Tit		·
	PLASE I BOOK EXPLOITATION		esofumogo sovembaha maya spaktroskopiya on Spetroskopy, 195 ro L'eorskop univ., sbornik, vyp.*(9))		Landsberg, Jer of Physics of the Figure of Physics of Technil and Technil as well as the varies of Physics of Technical and Technil and Te	present 1996.	and teather to of Sov to of ap	abustion	44.	f trage		loth All-Union Conference (Cont.)	Andel', A.M., A.A. Patrov, and K.I. Felrov. Spetral Desembation of Kydrogen in Metals by the Isotope Balance Method	Anthors.	drogen T	12	P. Barres	l. b. Scot	il. Legs		
İ	2		rumogo ya spakt Spectros L'vorado oradk, v	Mditional Sponsoring Agency: spaintreakopii,	0.3. Lead Dostor of 17. Dostor of 17. Dostor of 18. Dostor	rography scopy 1:	oprephi ery phe	troseopy troseopy d the co		nation of	4	the loth	Libod of R	7	1.3 Ere	2.0. E.D.	ant Bes		- 4		
1		hiversitet	A Treeson Lind-wo	1 Sponso	Board: poorwart, bolinsk bo	This w	ive bibli	and specifications	a of sonter	is.	3	tale of t	erainat	tople &	tacty.	thert of	tisompor	rogen in	Pilimonov, L.W. ation of Car	Ę	·
	24(7)	Ibov. Int		ditions	Litoria B.B. B. V.D. W. W. B. Condition Condit	of aton	extensi extensi etudios electro	opties spectro			F-1	Materials	31	1	Frent	532	Boenke	201	ALL A	Card 11/31	
	*	ন •	4	1	* P .	8					3	•						•			

RYBCHINSKAYA, K.M. [Rybchyns 'ka, K.M.], kand. med. nauk; KANAN, M.k. [Kahan, M.R.]

Effect of combined mud therapy on the activity and properties of catalase in gynecological patients. Ped. akush. i gin. 24 no.6:50-52 '62. (MIM 17:4)

1. Biokhimicheskaya laboratoriya Ukrainskogo instituta kurortologii i fizioterapii (direktor - dotsent F. Ye. Kurkudim [Kurkudym, F.IE.]) i Lermontovskiy sanatoriy.